BC Centre for Disease Control
An agency of the Provincial Health Services Authority

British Columbia Influenza Surveillance Bulletin

Influenza Season 2018-19, Number 7, Week 1
December 30, 2018 to January 5, 2019

Table of Contents:

Influenza A(H1N1)pdm09 activity remains elevated in BC, but may have peaked

During week 1 (December 30, 2018-January 5, 2019), influenza activity, predominantly due to A(H1N1)pdm09, remained elevated in BC. Some surveillance indicators suggest that influenza activity may have peaked in BC, but further monitoring is required to confirm this downward trend.

Among influenza viruses typed at the BCCDC PHL since week 40, virtually all have been influenza A and, among those subtyped, more than 90% this season so far have been A(H1N1)pdm09.

Children less than 10 years of age and non-elderly adults comprise 78% of all A(H1N1)pdm09 detections to date with children in particular disproportionately affected. Conversely, elderly adults are overrepresented among A(H3N2) detections in BC, accounting for about three-quarters of A(H3N2) detections thus far.

Since our last bulletin, 3 laboratory-confirmed influenza outbreaks in long term care facilities (LTCF) have been reported (1 A(H1N1)pdm09, 2 of unknown subtype). Since week 40, there have been a total of 11 lab-confirmed LTCF outbreaks this season. In contrast, between weeks 40 and 1 of the A(H3N2) dominant 2016-17 and 2017-18 seasons, 93 and 61 lab-confirmed LTCF outbreaks, respectively, had been reported. The lower number to date this season is consistent with fewer LTCF outbreaks expected during seasons of dominant A(H1N1)pdm09 compared to dominant A(H3N2) circulation.

Prepared by BCCDC Influenza & Emerging Respiratory Pathogens Team

Report Disseminated: January 10, 2019

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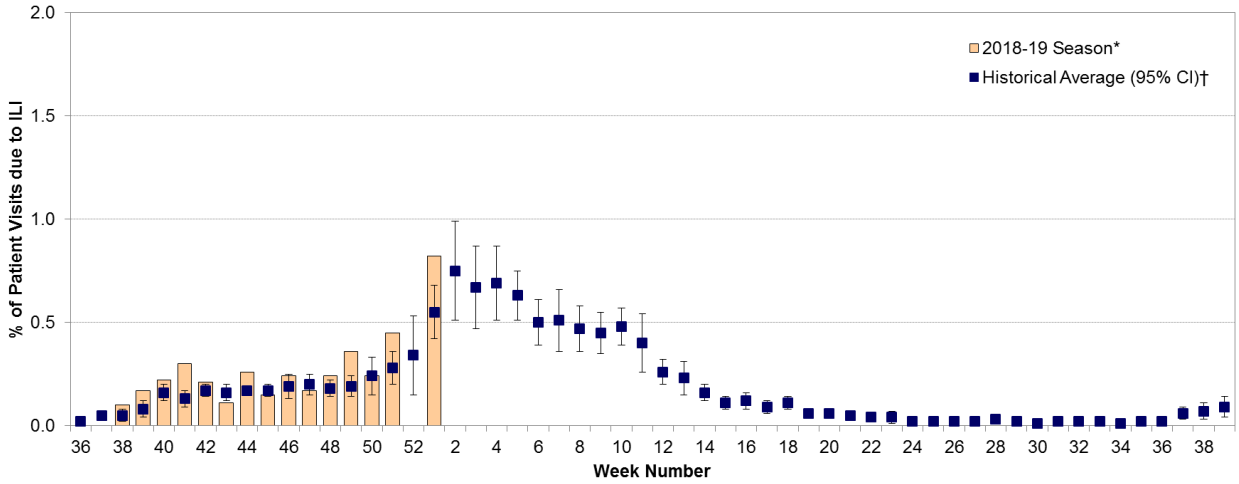
British Columbia

Sentinel Physicians

In week 1, influenza-like illness (ILI) rates among patients presenting to sentinel sites increased considerably compared to week 51, trending above the historical average (**Figure 1**). Eleven (41%) sentinel sites have reported data for week 1. No sentinel sites reported ILI cases in week 52, although just 10 (37%) sentinel sites reported data for that week. Rates are subject to change as reporting becomes more complete.

Figure 1: Percent of patient visits to sentinel physicians due to influenza-like illness (ILI) compared to historical average, British Columbia, 2018-19

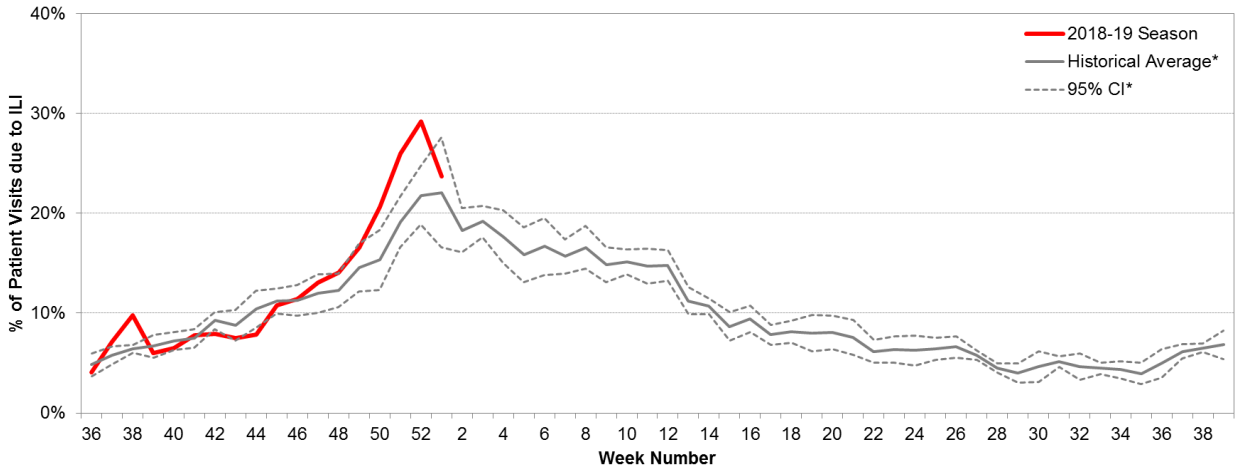


* Data are subject to change as reporting becomes more complete.
† 10-year historical average for 2018-19 season based on 2005-06 to 2017-2018 seasons, excluding 2008-09 and 2009-10 due to atypical seasonality; CI=confidence interval.

BC Children's Hospital Emergency Room

In week 1, the proportion of visits to BC Children's Hospital Emergency Room (ER) attributed to ILI remained elevated but had decreased since week 52, falling to within expected levels for this time of the year (**Figure 2**).

Figure 2: Percent of patients presenting to BC Children's Hospital ER attributed to influenza-like illness (ILI), British Columbia, 2018-19

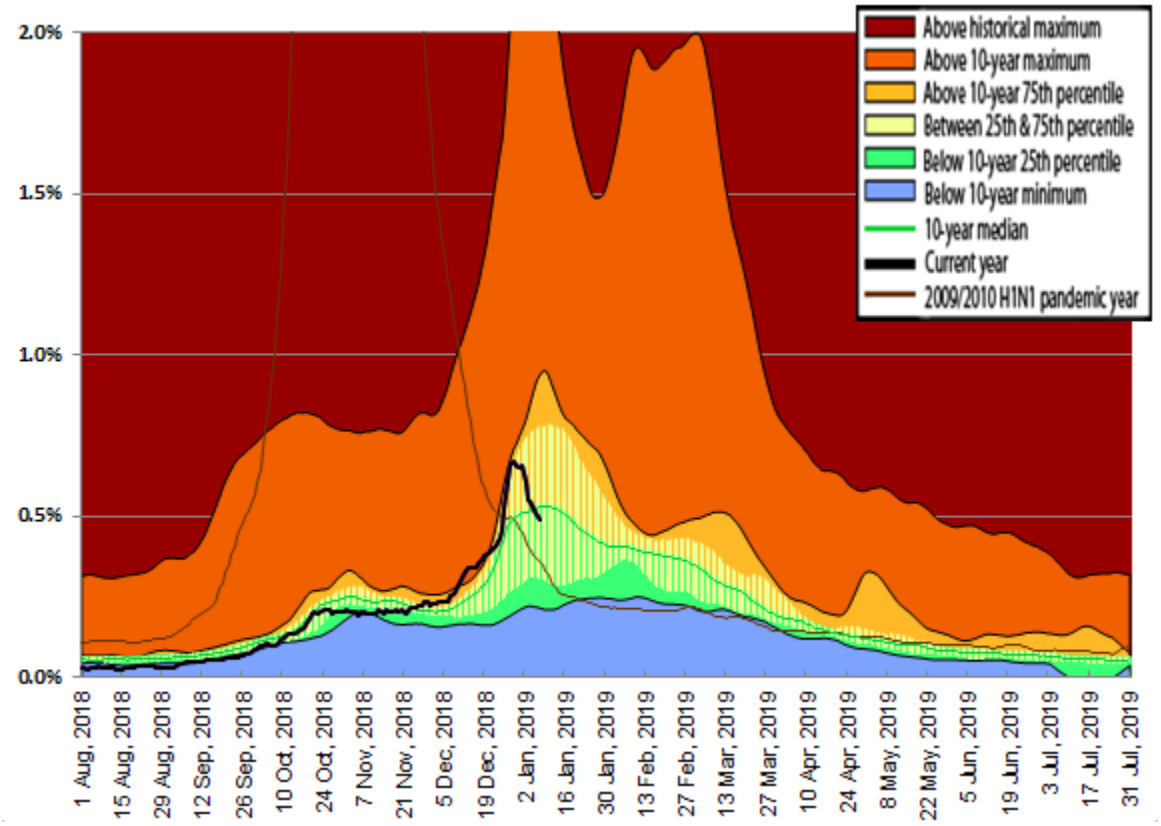


Source: BCCH Admitting, Discharge, Transfer database (ADT). Data includes records with a triage chief complaint of "flu" or "influenza" or "fever/cough."
* 5-year historical average for 2018-19 season based on 2012-13 to 2017-18 seasons; CI=confidence interval.

Medical Services Plan

In week 1, BC Medical Services Plan (MSP) general practitioner claims for influenza illness (II), as a proportion of all submitted MSP claims, decreased below the 10-year 25th percentile overall for the province, suggestive of declining influenza activity (**Figure 3**). MSP claims for II across all regions were observed to have decreased following a possible peak over the holiday period (**Figure 4**).

Figure 3: Service claims submitted to MSP for influenza illness (II)* as a proportion of all submitted general practitioner service claims, British Columbia, 2018-19



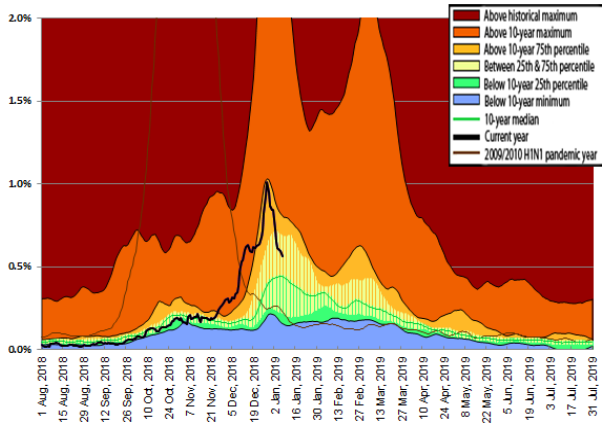
* Influenza illness is tracked as the percentage of all submitted MSP general practitioner claims with ICD-9 code 487 (influenza).

Data for the period August 1, 2009 to July 31, 2010 have been excluded from the 10-year median calculation due to atypical seasonality during the 2009/2010 H1N1 pandemic year. MSP data beginning August 1, 2018 corresponds to sentinel ILI week 31; data are current to January 7, 2019.

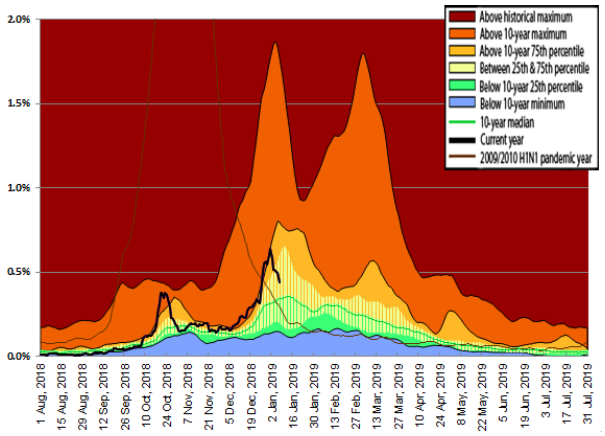
Data provided by Population Health Surveillance and Epidemiology, BC Ministry of Health Services.

Figure 4

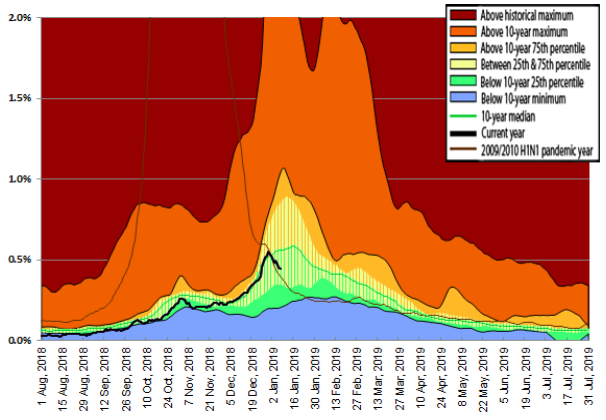
Interior



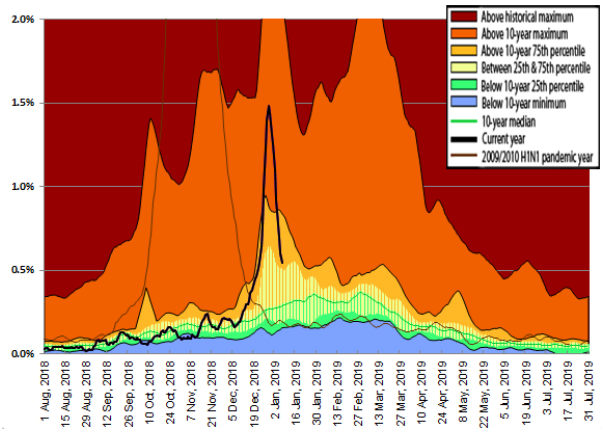
Vancouver Island



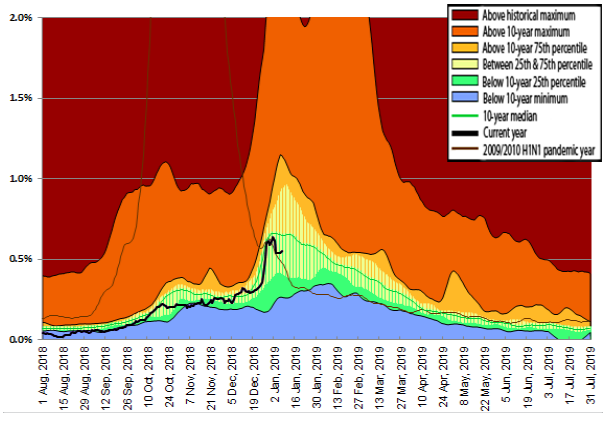
Fraser



Northern



Vancouver Coastal



British Columbia Laboratory Reports

In recognition of expanded influenza testing by additional laboratories across British Columbia, this section of the bulletin now includes respiratory specimens tested at sites beyond the BCCDC Public Health Laboratory (PHL) in deriving the test-positivity indicator. This change was implemented in the bulletin issued week 48 and represents a change from earlier bulletins of this and previous seasons. Type and subtype distribution will continue to be derived from the BCCDC PHL.

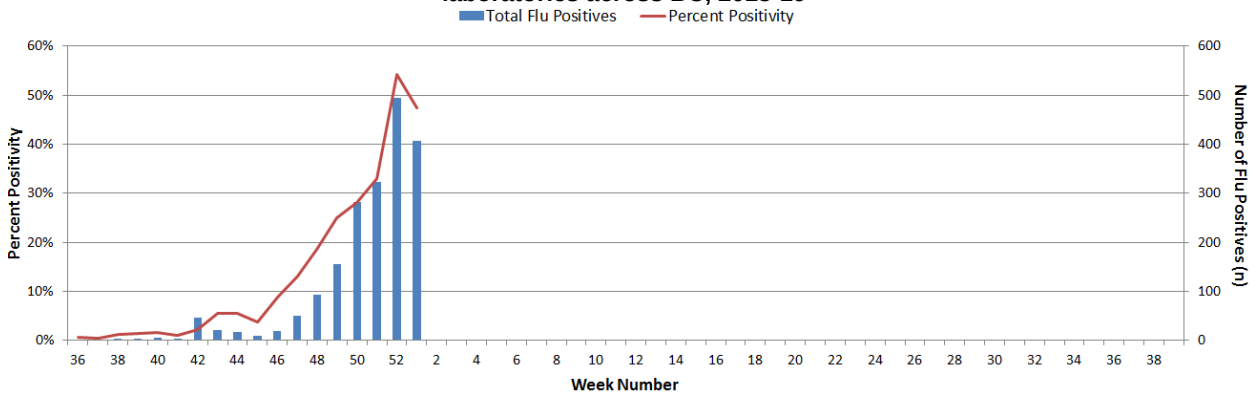
Cumulatively, during the 2018-19 season (since week 40, starting October 1, 2018), 1934/9265 (21%) specimens tested positive for influenza at participating laboratories across British Columbia (BC) (as submitted to FluWatch). In week 1, 408/861 (47%) specimens tested positive for influenza at these laboratories, representing a decrease from previous weeks (**Figure 5**).

Cumulatively, during the 2018-19 season (since week 40, starting October 1, 2018), 1268 patients tested positive for influenza at the BC Centre for Disease Control (BCCDC) Public Health Laboratory (PHL), of which 1264 (99.7%) were typed as influenza A [66 (5%) A(H3N2), 1011 (80%) A(H1N1)pdm09, 187 (15%) subtype unknown] and 4 (0.3%) as influenza B. Among influenza A viruses subtyped, 1011/1077 (94%) were A(H1N1)pdm09. Of 191 typed influenza viruses in week 1, 190 (99.5%) were typed as influenza A and 1 (0.5%) was typed as influenza B. Among the influenza A viruses, 10 (5%) were identified as A(H3N2), 96 (51%) as A(H1N1)pdm09, and for 84 (44%) subtype was unknown. In week 1, therefore, 96/106 (91%) influenza A viruses subtyped were A(H1N1)pdm09, indicating its continued predominance **(Figure 6).**

Since week 40, approximately half (51%) of A(H1N1)pdm09 detections were among adults 20-64 years of age and 27% were among children ≤ 9 years of age with lesser involvement of children 10-19 years (5%) or elderly adults (17%). Children under 10 years of age, who comprise about 10% of the BC population overall, are therefore disproportionately represented among A(H1N1)pdm09 detections in BC. On the other hand, the majority (72%) of A(H3N2) detections have been among elderly adults greater than 65 years of age (who comprise <20% of the population)[1].

Respiratory syncytial viruses (n=47) were the most commonly detected other respiratory virus (excluding influenza) at the BCCDC in week 1 (**Figure 6**).

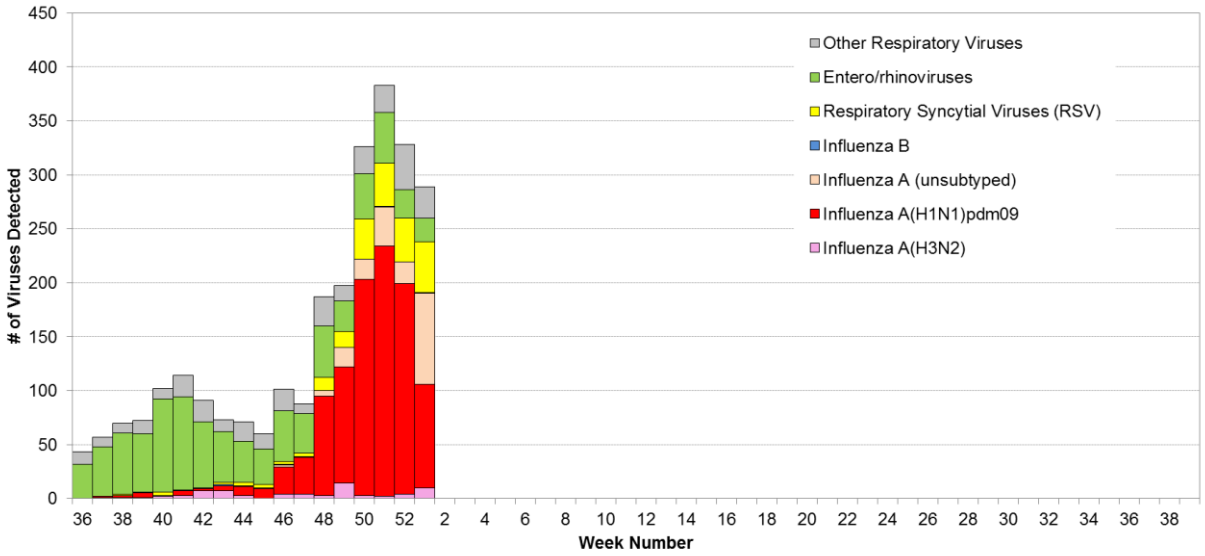
Figure 5: Flu positivity derived from influenza specimens submitted to participating laboratories across BC, 2018-19*



Source: Based on respiratory specimens tested by laboratories in BC and reported to FluWatch.
*Note: Rates are subject to change upon retrospective reconciliation of data

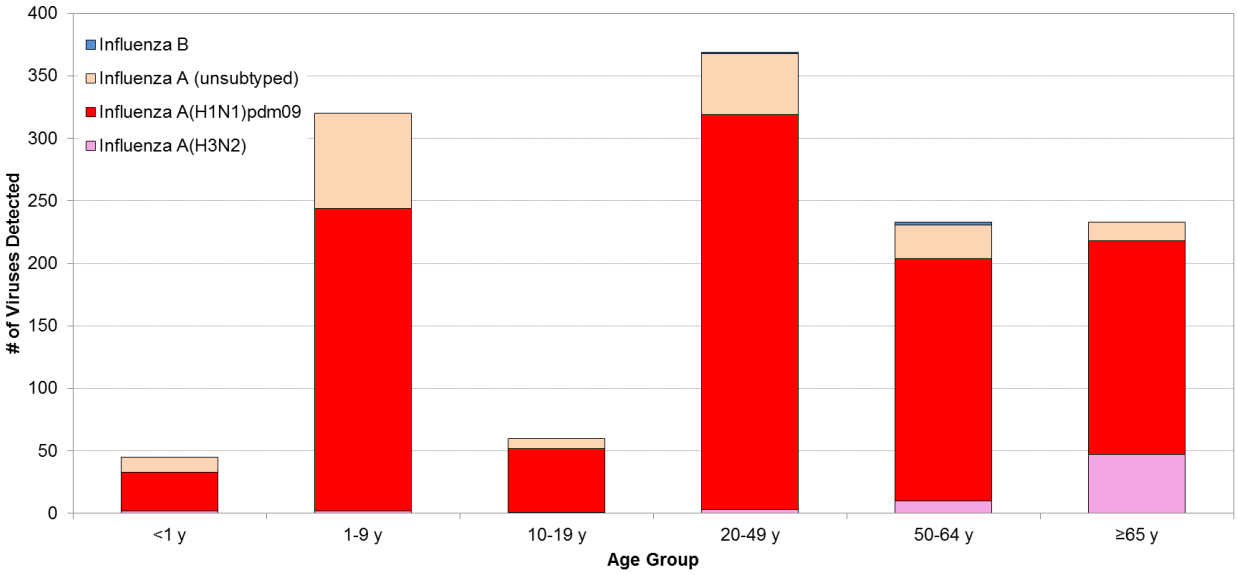
1 Government of British Columbia, BC Stats. Population Estimates 2017. URL: https://www.bcstats.gov.bc.ca/apps/PopulationEstimates.aspx. Date accessed: December 13, 2018.

Figure 6: Influenza and other virus detections among respiratory specimens submitted to BCCDC Public Health Laboratory, 2018-19



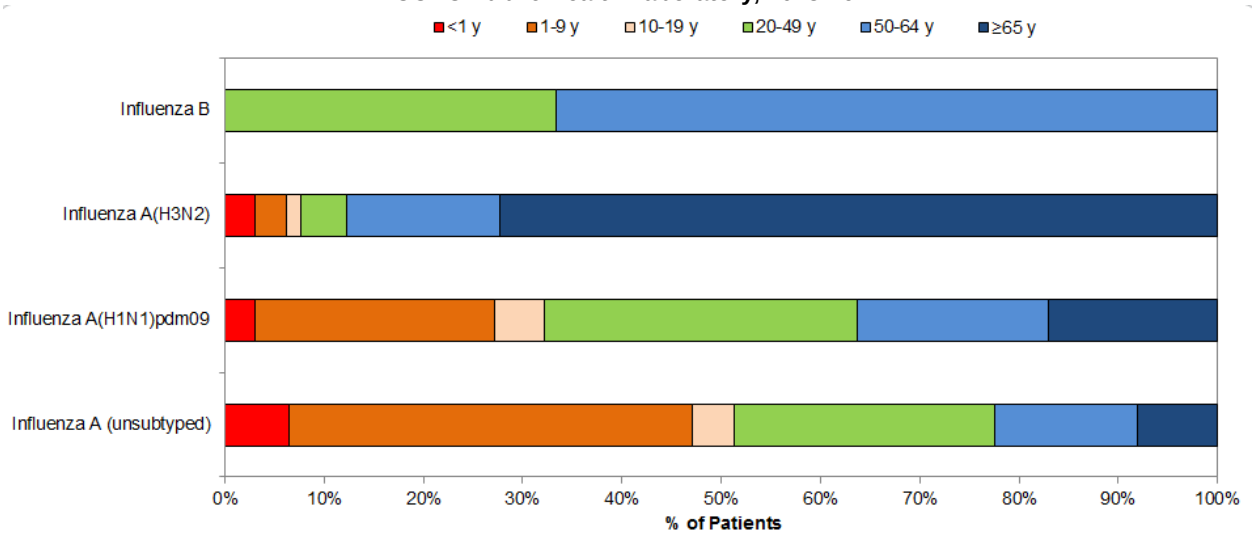
Source: BCCDC Public Health Laboratory (PHDRW); Data are current to January 8, 2019.

Figure 7: Cumulative number (since week 40) of influenza detections by type, subtype, and age group, BCCDC Public Health Laboratory, 2018-19



Source: BCCDC Public Health Laboratory (PHDRW); Data are current to January 8, 2019; figure includes cumulative influenza detections for specimens collected since week 40.

Figure 8: Age distribution of influenza detections (cumulative since week 40), BCCDC Public Health Laboratory, 2018-19

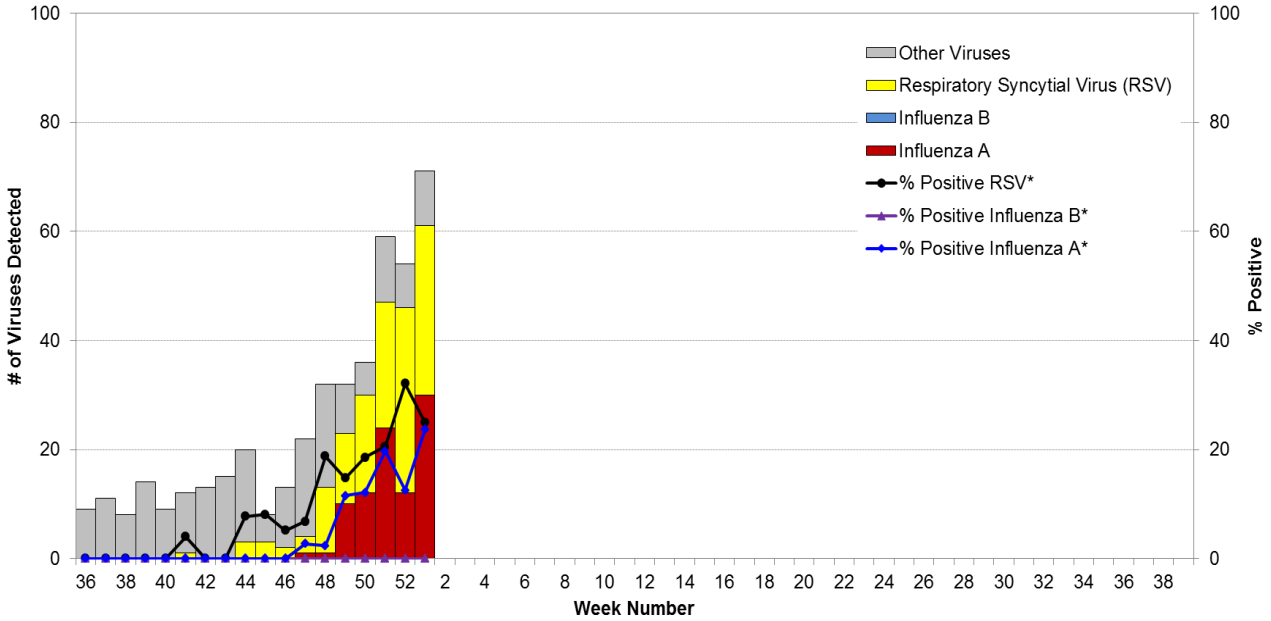


Source: BCCDC Public Health Laboratory (PHDRW); Data are current to January 8, 2019; figure includes cumulative influenza detections for specimens collected since week 40.

BC Children's and Women's Health Centre Laboratory

In week 1, 127 tests for influenza and 124 tests for respiratory syncytial virus (RSV) were conducted at the BC Children's and Women's Health Centre laboratory. Of these, 30 were positive for influenza A (not subtyped), none were positive for influenza B, and 31 were positive for RSV. Compared to the prior week 52, influenza A test positivity increased in week 1 (13% vs 24%), while respiratory syncytial virus (RSV) test positivity decreased (32% vs 25%) (**Figure 9**).

Figure 9: Influenza and other virus detections among respiratory specimens submitted to BC Children's and Women's Health Centre Laboratory, 2018-19



* Positive rates were calculated using aggregate data. The denominators for each rate represent the total number of tests; multiple tests may be performed for a single specimen and/or patient.

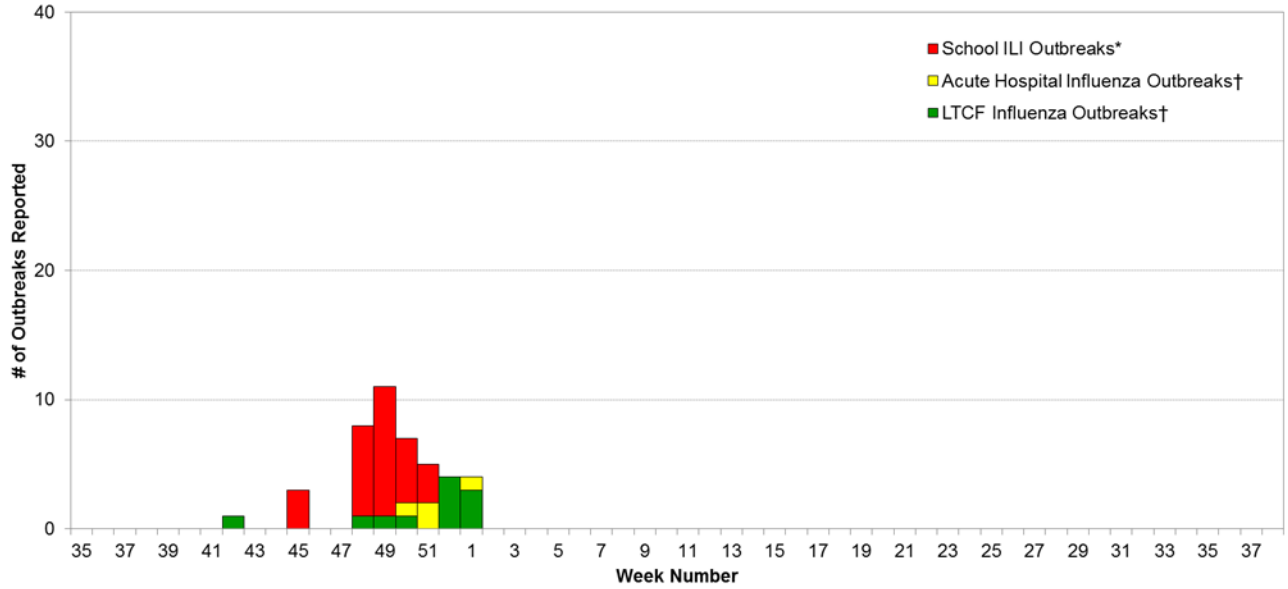
Influenza-like Illness (ILI) Outbreaks

In week 1, three laboratory-confirmed outbreaks of influenza A were reported in long-term care facility (LTCF) settings and one in an acute care facility setting.

Since week 40, a total of 11 LTCF (3 A(H3N2), 4 A(H1N1)pdm09, and 4 subtype unknown), 4 acute care facility outbreaks, and 28 school outbreaks have been reported (**Figures 10 and 11**).

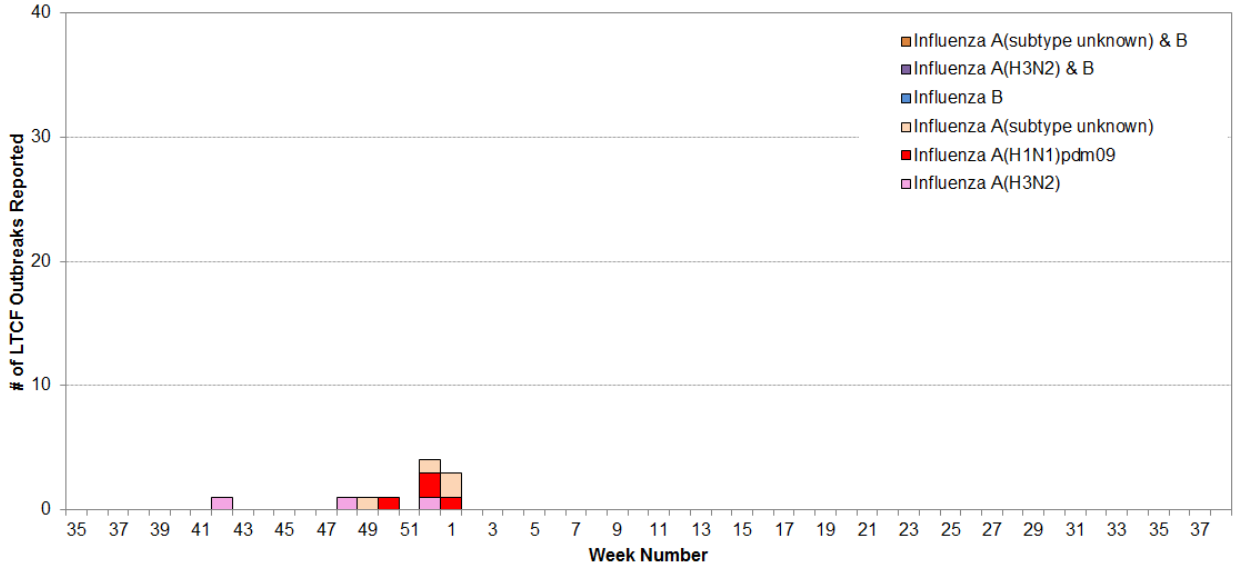
By way of comparison, between weeks 40 and 1 of the 2016-17 and 2017-18 seasons, 93 and 61 lab-confirmed LTCF outbreaks, respectively, had been reported.

Figure 10: Number of influenza-like illness (ILI) outbreaks reported, British Columbia 2018-19



* School-based ILI outbreak defined as >10% absenteeism on any day, most likely due to ILI. Onset
† Facility-based influenza outbreaks defined as 2 or more ILI cases within 7-day period, with at least one laboratory-confirmed case of influenza.

Figure 11: Number of influenza outbreaks by type/subtype in long-term care facilities (LTCF), British Columbia 2018-19†



† Facility-based influenza outbreaks defined as 2 or more ILI cases within 7-day period, with at least one laboratory-confirmed case of influenza.

Emerging Respiratory Viruses

Cases of acute flaccid myelitis (AFM) – possibly associated with enterovirus D68 (EV-D68)

Since September, the US CDC has reported an increase in paediatric cases of acute flaccid myelitis (AFM), a subset of acute flaccid paralysis (AFP) (often referred to as "polio-like illness" in the media).

As of January 4th 2019, the CDC has confirmed 193 cases of AFM across 39 states – predominantly affecting children under 5 years of age. A further 156 reports are currently under investigation. Patients have presented with neurological features, specifically single or multi-limb weakness, with most requiring hospitalization. More than 90% of AFM cases reported a mild respiratory or febrile illness - consistent with a viral infection - in the weeks preceding symptom onset. AFM has a variety of possible causes, including non-polio enterovirus infection. Among 71 confirmed cases tested, just over half (54%) tested positive for enterovirus or rhinovirus at the time of AFM diagnosis (37% for enterovirus D68 (EV-D68), 29% for enterovirus A71 (EV-A71)).

In the US, the number of confirmed cases has surpassed that of their previous high in 2016 (when 149 confirmed cases were detected), and continues to increase. These reports indicate that 2018 represents another biennial peak, similar to that observed during EV-D68 epidemics in 2014 and 2016. The latter EV-D68 epidemics were noteworthy for including cases with severe respiratory manifestations (less prominently noted in 2018); however, neurological complications were also identified. Accordingly, the US CDC has escalated its response by establishing an AFM task force to aid investigation efforts.

An increase in reported cases of AFP has also been detected outside of North America. Public Health England is currently investigating an apparent increase in reports of AFP in England (28 cases in 2018 as of December 19th, compared to an annual expected number of less than 10). The majority of these cases have been children and have arisen since September 2018. EV-D68 has been implicated in 8 (29%) of these cases.

In Canada, a possible uptick in reports of AFP was also noted in 2018; as of December 18th, 47 confirmed cases have been documented with a further 28 cases under investigation. The annual expected number of cases reported to the Public Health Agency of Canada ranges between 27-51 cases.

While EV-D68 has been detected at low levels in BC this 2018-19 autumn-winter period, we are aware of a single report of laboratory-confirmed EV-D68 infection associated with neurological features. This case (a young child) presented in December 2018 with acute flaccid paralysis of an upper limb following a mild respiratory illness.

General information related to AFP/AFM and EV-D68 is available from the following sources:

US CDC AFM webpage: https://www.cdc.gov/acute-flaccid-myelitis/index.html

US CDC factsheet on EV-D68: https://www.cdc.gov/non-polio-enterovirus/about/ev-d68.html

PHAC information sheet on AFM in Canada: https://www.canada.ca/en/public-health/services/diseases/acute-flaccid-myelitis.html

A summary of the 2014 experience in BC was published in Euro Surveillance, available from: https://www.eurosurveillance.org/content/10.2807/1560-7917.ES.2015.20.43.30047

National

FluWatch (weeks 51 and 52, December 16 to 29, 2018)

At the national level, influenza activity continued to increase in weeks 51 and 52. Influenza A continues to be the most common influenza virus circulating in Canada, and the majority of these viruses are A(H1N1)pdm09. The percentage of tests positive for influenza continued to increase from 25.1% in week 51 to 29.4% in week 52. A total of 3,387 laboratory detections of influenza were reported over this period, of which 99% were influenza A. The majority of lab-confirmed cases and hospitalizations have been among individuals under the age of 65. Details are available at: https://www.canada.ca/en/public-health/services/diseases/flu-influenza/influenza-surveillance/weekly-influenza-reports.html.

National Microbiology Laboratory (NML): Strain Characterization

From September 1, 2018 to January 10, 2019, the National Microbiology Laboratory (NML) has characterized 481 influenza viruses [45 A(H3N2), 420 A(H1N1)pdm09 and 16 B (14 Yamagata lineage and 2 Victoria lineage)] received from Canadian laboratories.

Influenza A(H3N2): Twelve influenza A(H3N2) viruses were considered antigenically similar to A/Singapore/INFIMH-16-0019/2016, the WHO-recommended A(H3N2) component of the 2018-19 northern hemisphere influenza vaccine. Of these, 4 belonged to genetic group 3C.2a1, 1 belonged to genetic group 3C.2a and 1 belonged to 3C.3a. Sequencing is pending for the remaining six viruses.

Influenza A(H1N1)pdm09: 415 A(H1N1)pdm09 viruses antigenically characterized were found to be similar to the A/Michigan/45/2015 virus: the WHO-recommended influenza A(H1N1) component of the 2018-19 northern hemisphere influenza vaccine. However, 5 viruses showed reduced titer with ferret antisera raised against cell culture-propagated A/Michigan/45/2015.

Influenza B: 14 influenza B viruses antigenically characterized were considered similar to the B/Phuket/3073/2013 virus, which belongs to the B Yamagata lineage: the WHO-recommended influenza B component of the 2018-19 northern hemisphere *quadrivalent* influenza vaccine. WHO-recommended influenza B component of the *trivalent* vaccine is a B/Colorado/06/2017-like virus of the B Victoria lineage. Two influenza B viruses characterized were antigenically similar to B/Colorado/06/2017.

National Microbiology Laboratory (NML): Antiviral Resistance

From September 1, 2018 to January 10, 2019, the NML received influenza viruses from Canadian laboratories for drug susceptibility testing.

Amantadine: Of the 278 influenza viruses [37 A(H3N2) and 241 A(H1N1)pdm09] tested against amantadine, all were resistant.

Oseltamivir: Of the 403 influenza viruses [40 A(H3N2), 348 A(H1N1)pdm09, and 15 B] tested against oseltamivir, all were sensitive.

Zanamivir: Of the 403 influenza viruses [40 A(H3N2), 348 A(H1N1)pdm09, and 15 B] tested against zanamivir, all were sensitive.

International

USA (week 52, December 23 to 29, 2018)

Influenza activity is increasing in the United States (US), with influenza A(H1N1)pdm09, influenza A(H3N2), and influenza B viruses continuing to co-circulate. Influenza A(H1N1)pdm09 viruses have predominated in most areas of the country; however, influenza A(H3N2) viruses have predominated in the southeastern US. In week 52, the proportion of deaths attributed to pneumonia and influenza was below the system-specific epidemic threshold. Two influenza-associated pediatric deaths were reported during this week. The proportion of outpatient visits for ILI increased to 4.1%, which is above the national baseline of 2.2%. However, this observed increase may be influenced in part by a reduction in routine healthcare visits during the holiday season. The US CDC has posted a summary of influenza activity in the United States and elsewhere for week 52, available at: https://www.cdc.gov/flu/weekly/index.htm

WHO (January 7, 2019, based on data up to December 23, 2018)

In temperate zones of the northern hemisphere, influenza activity continued to slowly increase overall. In North America, influenza A(H1N1)pdm09 continues to predominate, While in Europe, both A viruses are circulating. In East Asia, the influenza season appears to have started, with predominantly influenza A(H1N1)pdm09 detected. In Southern Asia, influenza detections rose sharply in recent weeks mainly due to increased influenza A(H3N2) detections in Iran and continued influenza A(H1N1)pdm09 detections in India. In the temperate zones of the southern hemisphere, influenza activity returned to inter-seasonal levels, with the exception of some parts of Australia. Worldwide, seasonal influenza A viruses accounted for the majority of detections.

From 10 December 2018 to 23 December 2018, the WHO GISRS laboratories tested more than 97,188 specimens. Of these, 12,945 were positive for influenza viruses, of which 12,148 (93.8%) were typed as influenza A and 797 (6.2%) as influenza B. Of the sub-typed influenza A viruses, 5,823 (77%) were influenza A(H1N1)pdm09 and 1,739 (23%) were influenza A(H3N2). Of the characterized B viruses, 40 (40.4%) belonged to the B-Yamagata lineage and 59 (59.6%) to the B-Victoria lineage.

The full report is available at: www.who.int/influenza/surveillance_monitoring/updates/en/.

WHO Recommendations for Influenza Vaccines

WHO Recommendations for 2018-19 Northern Hemisphere Influenza Vaccine

On February 22, 2018, the WHO announced the recommended strain components for the 2018-19 northern hemisphere trivalent influenza vaccine (TIV)*:

- an A/Michigan/45/2015 (H1N1)pdm09-like virus;
- an A/Singapore/INFIMH-16-0019/2016 (H3N2)-like virus; †
- a B/Colorado/06/2017-like virus (B/Victoria/2/87 lineage) ‡.

It is recommended that quadrivalent influenza vaccines (QIV) containing two influenza B viruses contain the above three viruses and a B/Phuket/3073/2013-like virus (B/Yamagata/16/88 lineage).

* Recommended strains represent a change for two of the three components used for the 2017-18 northern hemisphere TIV

† Recommended strain represents a change from the 2017-18 season vaccine which contained an A/Hong Kong/4801/2014 (H3N2)-like virus

‡ Recommended strain represents a change from the 2017-18 season vaccine which contained a B/Brisbane/60/2008-like virus.

For further details: http://www.who.int/influenza/vaccines/virus/recommendations/2018_19_north/en/

WHO Recommendations for the 2019 Southern Hemisphere Influenza Vaccine

On September 27, 2018, the WHO announced recommended strain components for the 2019 southern hemisphere trivalent influenza vaccine (TIV):*

- an A/Michigan/45/2015 (H1N1)pdm09-like virus;
- an A/Switzerland/8060/2017 (H3N2)-like virus;‡
- a B/Colorado/06/2017-like virus (B/Victoria/2/87 lineage).§

It is recommended that quadrivalent influenza vaccines (QIV) containing two influenza B viruses contain the above three viruses and a B/Phuket/3073/2013-like virus (B/Yamagata/16/88 lineage).

* Recommended strains represent a change for two of the three components used for the 2018 southern hemisphere TIV.

‡ Recommended strain represents a change from the 2018 season vaccine which contained an A/Singapore/INFIMH-16-0019/2016 (H3N2)-like virus

§ Recommended strain for the influenza B component represents a lineage-level change from a B(Yamagata)-lineage virus in the 2018 vaccine to a B(Victoria)-lineage virus in the 2019 vaccine.

For further details: http://www.who.int/influenza/vaccines/virus/recommendations/2019_south/en/

Additional Information

Explanatory Note:

The surveillance period for the 2018-19 influenza season is defined starting in week 40. Weeks 36-39 of the 2017-18 season are shown on graphs for comparison purposes.

List of Acronyms:

ACF: Acute Care Facility
AI: Avian influenza
FHA: Fraser Health Authority
HBoV: Human bocavirus
HMPV: Human metapneumovirus
HSDA: Health Service Delivery Area
IHA: Interior Health Authority
ILI: Influenza-Like Illness
LTCF: Long-Term Care Facility
MSP: BC Medical Services Plan
NHA: Northern Health Authority
NML: National Microbiological Laboratory
A(H1N1)pdm09: Pandemic H1N1 influenza (2009)
RSV: Respiratory syncytial virus
VCHA: Vancouver Coastal Health Authority
VIHA: Vancouver Island Health Authority
WHO: World Health Organization

Current AMMI Canada Guidelines on the Use of Antiviral Drugs for Influenza:
www.ammi.ca/?ID=122&Language=ENG

Web Sites:

BCCDC Emerging Respiratory Pathogen Updates:
www.bccdc.ca/health-professionals/data-reports/emerging-respiratory-virus-updates

Influenza Web Sites

Canada – Influenza surveillance (FluWatch): https://www.canada.ca/en/public-health/services/diseases/flu-influenza/influenza-surveillance.html
Washington State Flu Updates: http://www.doh.wa.gov/portals/1/documents/5100/420-100-fluupdate.pdf
USA Weekly Surveillance Reports: www.cdc.gov/flu/weekly/
Joint ECDC – WHO/Europe weekly influenza update (Flu News Europe): flunewseurope.org
WHO – Weekly Epidemiological Record: www.who.int/wer/en/
WHO Collaborating Centre for Reference and Research on Influenza (Australia): www.influenzacentre.org/
Australian Influenza Report:
www.health.gov.au/internet/main/publishing.nsf/content/cda-surveil-ozflu-flucurr.htm
New Zealand Influenza Surveillance Reports: www.surv.esr.cri.nz/virology/influenza_weekly_update.php

Avian Influenza Web Sites

WHO – Influenza at the Human-Animal Interface: www.who.int/csr/disease/avian_influenza/en/
World Organization for Animal Health: www.oie.int/eng/en_index.htm

Contact Us:

Tel: (604) 707-2510
Fax: (604) 707-2516
Email: InfluenzaFieldEpi@bccdc.ca

Communicable Disease Prevention and Control Services (CDPACS)
BC Centre for Disease Control
655 West 12th Ave, Vancouver BC V5Z 4R4

Online: www.bccdc.ca/health-professionals/data-reports/influenza-surveillance-reports

Link to fillable Facility Outbreak Report Form: http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Epid/Influenza%20and%20Respiratory/OutbreakReportForm_2018.pdf

Communicable Diseases & Immunization Service
655 W. 12th Ave. Vancouver BC V5Z 4R4
Phone: (604) 707-2510; Fax: (604) 707-2516

Reset Form

Submit By Email

Version: 30 Jul 2018

Influenza-Like Illness (ILI) Outbreak Summary Report Form

Please complete and email to ilioutbreak@bccdc.ca

Note: This form is for provincial surveillance purposes.
Please notify your local health unit per local guidelines/requirements.

ILI: Acute onset of respiratory illness with fever and cough and with one or more of the following: sore throat, arthralgia, myalgia, or prostration which *could* be due to influenza virus. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.
Schools and work site outbreak: greater than 10% absenteeism on any day, most likely due to ILI.
Residential institutions (facilities) outbreak: two or more cases of ILI within a seven-day period.

A — Reporting Information

Person Reporting: Title:
Contact Phone: Email:
Health Authority: HSDA:
Full Facility Name:

Is this report: ☐ First Notification *(complete section **B** below; section **D** if available)*
☐ Outbreak Over *(complete section **C** and section **D** below)*

Report Date (dd/mm/yyyy):

B — First Notification

Type of facility*: ☐ Long Term Care Facilities, Nursing Homes ☐ Acute Care Facility
☐ Other Setting:

If ward or wing, please specify name/number:

Date of onset of first case of ILI (dd/mm/yyyy):
Date outbreak declared (dd/mm/yyyy):

***Long Term Care Facilities, Nursing Homes:** Facilities that provide living accommodation for people who require on-site delivery of 24 hour, 7 days a week supervised care, including professional health services, personal care and services such as meals, laundry and housekeeping or other residential care facilities where provincial/territorial public health is responsible for outbreak management under provincial legislation; **Acute Care Facility:** Publicly funded facilities providing medical and/or surgical treatment and acute nursing care for sick or injured people, through inpatient services. (i.e. hospitals including inpatient rehabilitation and mental facilities); **Other Setting:** Any locations not otherwise specified here in which outbreaks of influenza or ILI may occur (e.g. retirement homes, assisted living or hospice settings, private hospitals/clinics, correctional facilities, colleges/universities, adult education centres, shelters, group homes, and workplaces).

C — Outbreak Declared Over

Date of onset for last case of ILI (dd/mm/yyyy):
Date outbreak declared over (dd/mm/yyyy):

Numbers to date	Residents
Total	
With ILI	
Hospitalized*	
Died*	

*suspected to be linked to case of ILI

D — Laboratory Information

Specimen(s) submitted? ☐ Yes (location:) ☐ No ☐ Don't know
If yes, organism identified? ☐ Yes ☐ No ☐ Don't know

Please specify organism/subtype: ☐ Influenza A (subtype:) ☐ Influenza B
☐ Parainfluenza ☐ Entero/rhinovirus ☐ Coronavirus ☐ RSV
☐ HMPV ☐ Adenovirus ☐ Other: